BENTHIC CEPHALOPODS OF THE EASTERN PACIFIC

MOLLUSCA

CEPHALOPODA

SEPIOIDEA

Family Sepiolidae

Rossia pacifica Berry 1911

OCTOPODA

CIRRATA

Family Opisthoteuthidae

Opisthoteuthis californiana Berry 1949
Opisthoteuthis sp. nov. A
Opisthoteuthis sp. nov. B

INCIRRATA

Family Octopodidae

Benthoctopus hokkaidensis Berry 1921
Benthoctopus sp.
Graneledone sp.

Octopus bimaculatus (Verrill, 1883)
Octopus bimaculoides Pickford and McConnaughey 1949
Octopus californicus (Berry 1911)
Octopus dofleini (Wulker 1910)
Octopus leioiderma (Berry 1911)
Octopus micropyrsus Berry 1953
Octopus penicillifer Berry 1954
Octopus pricei Berry 1913
Octopus rubescens Berry 1953
Octopus veligero Berry 1953
Octopus sp. nov. A
Octopus sp. nov. B

NAMES TO AVOID

Octopus apollyon
Octopus hongkongensis
Octopus pacificus
Octopus punctatus
PRELIMINARY KEY TO THE BENTHIC CEPHALOPODS OF THE EASTERN PACIFIC

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1. With 8 arms; arms with sessile suckers; body ovoid or globose; with or without fins; without an internal shell............ 2

1. With 8 arms plus 2 tentacles; arms with stalked suckers; tentacles retractile into special pits; body rounded; with large semi-circular fins; with an internal shell..... Rossia pacifica

2. Single row of suckers down each arm; deep water octopods.... 3

2. Double row of suckers down each arm; deep or shallow forms.. 5

3. With fins; arms with small muscular papillae (cirri)........... 4

3. Without fins; arms without cirri............... Graneledone sp.

4. Dorsal mantle length greater than 200 mm; with 4 lamellae per gill............................ Opisthoteuthis californiana

4. Dorsal mantle length less than 50 mm; with 6 lamellae per gill............................ Opisthoteuthis sp. nov. A

5. With ink sack; eggs smaller than 15 mm; mantle aperture wide................................................. 6

5. Without ink sack; eggs larger than 20 mm; mantle aperture narrow........................................... Benthoctopus sp.

6. Dorsal mantle length less than 200 mm; body papilloose or smooth; with 24 or fewer lamellae per gill..................... 7

6. Dorsal mantle length exceeding 200 mm; body with extensive skin folds; arms 3 to 5 times body length; with 24-29 lamellae per gill; hectocotylus large, 20% arm length; eggs 6 to 8 mm, larvae planktonic......................... Octopus dofleini

15
7. With conspicuous ocelli (eye-like spots) one below each eye near bases of arms 2 and 3; hectocotylus minute, 2% of arm length; with 14-20 lamellae per gill......................... 8

7. Without ocelli; hectocotylus not minute; gill lamellae counts not as above................................................................. 9

8. Arms 2.5 to 3.5 times body length; eggs large, 12 to 17 mm, juveniles demersal.................. Octopus bimaculoides

8. Arms 4 to 5 times body length; eggs small, 2 to 4 mm, larvae planktonic.................. Octopus bimaculatus

9. Arms 2 to 3 times body length; hectocotylus well developed, 20% arm length; eggs large; color not red...................... 10

9. Arms 3 times body length or longer; hectocotylus 8 to 10% arm length; eggs less than 12 mm; body color red or reddish brown................................................................. 11

10. Body pale grey buff, smooth, with single distinct fold or keel bordering the body laterally; dorsal mantle length up to 50 mm; egg size unknown....................... Octopus leioderma

10. Body pinkish orange, with large stellate papillae, without skin fold; dorsal mantle length up to 120 mm; eggs large, 12 to 15 mm, juveniles demersal........ Octopus californicus

11. Dorsal mantle length from 50 to 80 mm; body papilllose, color dull red to red brown, often mottled with white; enlarged suckers on all but ventral arms of male only; with 22 to 26 lamellae per gill; eggs small, 3 to 4 mm, larvae planktonic............ Octopus rubescens

11. Dorsal mantle length less than 25 mm; body smooth, bright red in color; enlarged suckers on all but ventral arms of both sexes; with 10 to 12 lamellae per gill; eggs 10 to 12 mm, juveniles demersal............ Octopus micropyrus
Dicymennea brevicephaloides
Dicymennea filiformis (= D. parva)
Dicyemids unknown

Dicyemids unknown
OCTOPUS BIMACULATUS

Dicyemmena abelis
Dicyemmena abbreviata
Dicyemmena granularis
Dicyema acciaccatum
Dicyema acheroni

Dicyemmena californica
Dicyemmena sullivani

OCTOPUS BIMACULOIDES
Two new species

Conocyema deca
Dicyemennea abreida
Two new species

Dicyemmennea sp. nov.
OCTOPUS PENICILLIFER

OCTOPUS PRICEI

Dicyemids unknown

Dicyemids unknown
Conocyema adiminicula
Dicyemennea adscita
Dicyema balamuthi

Dicyemennea brevicephala
Dicyema apollyoni

Dicyema sp. nov.
BIBLIOGRAPHY


